

Thursday 13 June 2019 – Morning**GCSE (9–1) Geography B
(Geography for Enquiring Minds)****J384/03 Geographical Exploration****Time allowed: 1 hour 30 minutes****You must have:**

- the OS map (inserted)
- the Resource Booklet (inserted)

You may use:

- a scientific or graphical calculator
- a ruler (cm/mm)

**Please write clearly in black ink. Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

Last name

INSTRUCTIONS

- The separate OS map extract and Resource Booklet will be found inside this document.
- Use black ink. You may use an HB pencil for graphs and diagrams.
- Answer **all** the questions.
- Write your answer to each question in the space provided. If additional space is required, use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.

INFORMATION

- The total mark for this paper is **60**.
- The marks for each question are shown in brackets [].
- Quality of extended responses will be assessed in questions marked with an asterisk (*).
- Spelling, punctuation and grammar and the use of specialist terminology (SPaG) will be assessed in questions marked with a pencil (✉).
- This document consists of **12** pages.

Answer **all** the questions.

1 (a) Study **Fig. 1** in the separate Resource Booklet, map of economic hubs and growth corridors in England.

(i) Explain what is meant by the term 'economic hub'.

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[2]

(ii) How many growth corridors are shown on the map?

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[1]

(iii) Calculate the distance between the economic hubs of Liverpool and Leeds.

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[1]

(iv) Using your own understanding, explain the pattern of core UK economic hubs.

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[3]

(b) Study **Fig. 2** in the separate Resource Booklet, data relating to selected economic hubs in England.

(i) Using data from **Fig. 2**, calculate the difference between the total number of new businesses opening in Liverpool, Manchester and Leeds to those opening in London. Show your working.

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[2]

(ii) Show the average cost of office space per square foot in London compared to Brighton as a ratio in its simplest form.

London : Brighton

..... :

[1]

(iii) Calculate the median number of new businesses opening in the economic hubs in 2016. Show your working.

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[2]

(c)

A 'start-up' is a newly created company that is typically technology orientated and has a high potential for growth. They can be very fast growing and often develop an innovative product.

Study **Fig. 3** in the separate Resource Booklet, factors that affect the location of start-up businesses.

Using **Fig. 2**, **Fig. 3** and your own understanding, explain why economic hubs are good locations for new start-up businesses.

[6]

- [6]

2 Study the **OS map extract**, a 1:50 000 scale map of Leeds.

Leeds is a city in West Yorkshire and is an economic hub.

(a) The village of Colton is east of Leeds city centre.

Give the six figure grid reference for the picnic site located in Colton.

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[1]

(b) Study **Fig. 4** in the separate Resource Booklet, a Desire Line map showing where workers in Leeds city centre live. The map is based on the **OS map extract** of Leeds.

(i) Using **Fig. 4** and the **OS map extract**, which place do the largest number of workers in Leeds city centre commute from?

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[1]

(ii) How could you adapt the Desire Line map to make it clearer?

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[1]

(c)* Study **Fig. 5** in the separate Resource Booklet, an extract from a property magazine featuring three of the suburbs of Leeds.

Some people choose to live in residential areas, often on the edge of cities, known as suburbs, and commute to work in Leeds city centre.

Using evidence from the **OS map extract**, **Figs 4 and 5** and your own understanding, discuss the reasons why people may choose to live in the suburbs but commute into the city centre for work.

[12]

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3 (a) Study **Fig. 6** in the separate Resource Booklet, a fact file on the flooding of the River Aire in Leeds. The area covered by this map is highlighted on the **OS map extract**.

(i) Give **two** pieces of evidence from the photographs that suggest the flooding on the South Bank in Leeds affected people.

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[2]

(ii) Study **Fig. 7** in the separate Resource Booklet, a map showing some of the planned developments on Leeds South Bank. The area covered by this map is highlighted on the **OS map extract**.

Using **one** piece of evidence from **Fig. 7**, explain why the South Bank proposal would be beneficial for Leeds.

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[3]

(iii) Suggest an alternative way of presenting the plan information shown in **Fig. 7**.

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[1]

(b) Using **Figs. 6 and 7** and your own understanding, explain why river basin management is needed to overcome contemporary challenges that affect life in the city.

[6]

[6]

4* Using the information in the separate Resource Booklet, the OS map extract and your own understanding:

1. Evaluate the economic and environmental sustainability of Leeds.
2. Suggest **one** way in which Leeds can attempt to achieve greater long-term sustainability.

121

Spelling, punctuation and grammar and the use of specialist terminology () [3]

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).





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